

TWING U3988

TWING 1000W Car Power Inverter User Manual

Model: U3988

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation of your TWING 1000W Car Power Inverter. Please read this manual thoroughly before use and retain it for future reference.

The TWING 1000W Car Power Inverter converts 12V DC battery power to standard 110V AC, providing dual AC outlets, a QC 3.0 USB port, and a 30W PD3.0 Type-C port for charging various devices.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the inverter and connected devices:

- Ensure proper ventilation around the inverter during operation.
- Do not expose the inverter to water, rain, or excessive moisture.
- Avoid operating the inverter in direct sunlight or near heat sources.
- Connect the inverter only to a 12V DC power source.
- Do not exceed the rated power output of the inverter (1000W continuous).
- Keep children away from the inverter and its connections.
- The inverter features multi-protection against over voltage, low voltage, overload, short circuit, and over heat.

3. PRODUCT OVERVIEW

The TWING 1000W Car Power Inverter is designed for versatility and convenience, offering multiple output options for various applications.



Image: The TWING 1000W Car Power Inverter, showing the main unit, battery clamps, cigarette lighter adapter, and spare fuses.

Package Contents:

- 1 x TWING 1000W Car Power Inverter
- 1 x Battery Clamp Cable
- 1 x Car Cigarette Lighter Adapter Cable
- Spare Fuses
- User Manual (this document)

Key Features:

- **1000W Continuous Power:** Provides stable power for various electronics.
- **Dual AC Outlets:** Standard 110V AC outlets for larger devices.
- **USB Charging Ports:** Includes QC 3.0 and 30W PD3.0 Type-C for fast charging.
- **Multi-Protection System:** Safeguards against over voltage, low voltage, overload, short circuit, and over heat.
- **Smart Digital Display:** Shows real-time voltage, current, and temperature.
- **Cooling Fan:** Integrated fan for efficient heat dissipation.

PRODUCT STRUCTURE



Image: A detailed diagram illustrating the components of the inverter, including the multifunctional LED display, positive and negative terminals, cooling fan, fuse, and cigarette lighter output.

4. SETUP

Before connecting the inverter, ensure your vehicle's engine is running to provide stable power and prevent battery drain, especially when using high-power devices.

Connection Methods:

1. Using the Car Cigarette Lighter Adapter (for loads up to 150W):

- Insert the cigarette lighter adapter into your vehicle's 12V cigarette lighter socket.
- Connect the other end of the adapter cable to the inverter's DC 12V input.
- This method is suitable for low-power devices like phones, tablets, and small electronics.

Car cigarette lighter fast charger

capable of powering a laptop,
iPad, and two phones at once



Image: The inverter connected to a car's cigarette lighter socket, demonstrating its use to power a laptop. This method is ideal for lower power consumption devices.

2. Using the Battery Clamp Cable (for loads up to 1000W):

- Ensure the inverter's power switch is in the OFF position.
- Connect the **red** battery clamp to the **positive (+)** terminal of your 12V battery.
- Connect the **black** battery clamp to the **negative (-)** terminal of your 12V battery.
- Connect the other end of the battery clamp cable to the inverter's DC 12V input terminals, ensuring correct polarity (red to red, black to black).
- This method is required for devices consuming more than 150W or for optimal performance.

ADVANCED SECURITY PROTECTIONS SYSTEM



Overload Protection



Overheat Protection



Short-circuit Protection



Low-voltage Protection



Over-voltage Shutdown



Over Current Protection

Image: The inverter connected directly to a car battery using the provided clamps, illustrating the advanced security protection system for safe high-power usage.

After connecting the inverter to the power source, you can turn on the inverter using its power switch.

5. OPERATING INSTRUCTIONS

Once the inverter is properly connected and powered on, you can begin using it to power your devices.

Using AC Outlets:

- Plug your 110V AC devices directly into the dual AC outlets on the inverter.
- Ensure the total wattage of all connected AC devices does not exceed 1000W.

Using USB and Type-C Ports:

- Connect your USB-compatible devices to the QC 3.0 USB port or the 30W PD3.0 Type-C port for fast charging.
- These ports are ideal for smartphones, tablets, and other portable electronics.

6 IN 1 POWER INVERTER

CHARGE YOUR DEVICES WITH MULTIPLE OUTPUT



Image: The inverter demonstrating its 6-in-1 capability, charging a laptop, phone, and other devices simultaneously using its multiple output ports.

Digital Display:

The smart digital display provides real-time information about the inverter's operation, including input voltage, output power, and temperature. Monitor this display to ensure optimal performance and prevent overload.

Your browser does not support the video tag.

Video: An official product video from Twing Republic demonstrating the features and operation of the Maxpart 1000W Power Inverter, including its various ports and digital display.

Your browser does not support the video tag.

Video: An official product video from Twing Republic showcasing the Maxpart 1000W Power Inverter's use in trucks and RVs, highlighting its portability and power capabilities for various applications.

6. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your inverter.

- **Cleaning:** Regularly clean the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the cooling fan and vents are free from dust and debris to maintain proper airflow. Blocked vents can lead to overheating.
- **Storage:** When not in use, store the inverter in a cool, dry place away from direct sunlight and moisture.
- **Fuses:** The inverter is equipped with internal fuses for protection. If the inverter stops functioning, and you suspect a fuse issue, consult a qualified technician for replacement.

7. TROUBLESHOOTING

If you encounter issues with your TWING 1000W Car Power Inverter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inverter not turning on.	Loose connection, low battery voltage, blown fuse.	Check all connections. Ensure battery voltage is above 11V. Inspect and replace fuses if necessary (consult technician).
No AC output.	Overload, short circuit, overheating.	Reduce connected load. Check for short circuits in devices/cables. Allow inverter to cool down.
Low power output / Inverter shuts off under load.	Connected load exceeds inverter capacity, insufficient input current (e.g., using cigarette lighter for high-wattage devices).	Ensure total wattage of devices is within 1000W. For loads over 150W, use battery clamp connection. Ensure vehicle engine is running.
Cooling fan constantly running or noisy.	Normal operation (temperature-controlled), dust in fan.	The fan operates based on internal temperature. If excessively noisy, clean vents.

If the problem persists after attempting these solutions, please contact customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	U3988
Continuous Power Output	1000W
Input Voltage	DC 12V
Output Voltage	AC 110V
USB Output	QC 3.0 (0-2.4A, up to 50W surge)
Type-C Output	PD3.0 (30W)
Cigarette Lighter Output (Max)	150W surge capacity
Product Dimensions	2.5 x 7.6 x 4.1 inches
Item Weight	3 pounds
Certifications	CE, FCC, RoHS

9. WARRANTY AND SUPPORT

TWING products are manufactured to high-quality standards. For any questions, technical support, or warranty claims, please contact TWING customer service.

You can also refer to the official User Manual PDF for additional details:[Download User Manual \(PDF\)](#)

